SEQUENCE LISTING

```
<110> The Regents of the University of California
       Martin, Paul Taylor
<120> AMYLOID-SPECIFIC PEPTIDES AND USES THEREOF
<130> 00015-022US1
<140> US 10/551,619
<141> 2005-09-30
<150> US 60/461,168
<151> 2003-04-07
<150> PCT/US04/10939
<151> 2004-04-07
<160> 33
<170> PatentIn version 3.5
<210> 1
<211> 11
<212> PRT
<213> Artificial sequence
<220>
<223> consensus peptide sequence
<220>
<221> MISC FEATURE
<222> (1)..(1)
<220>
<221> MISC FEATURE
<222> (2)..(2)
<223> Xaa is any amino acid but not a negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (3)..(3)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (4)..(4)
<223> Xaa is any amino acid but not a negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (5)..(5)
<223> Xaa is any amino acid but not a negatively charged amino acid
<220>
<221> MISC FEATURE
<222>
      (6)..(6)
<223> Xaa is a postively charged amino acid
<220>
```

```
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is W or F
<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa is any amino acid
<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> Xaa is any amino acid
<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> Xaa may or may not be present if Xaa is present Xaa is any amino
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is W or F
<400> 1
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
              5
<210> 2
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 2
Asp Trp Gly Lys Gly Gly Arg Trp Arg Leu Trp Pro Gly Ala Ser Gly
                                    10
Lys Thr Glu Ala
            20
<210> 3
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 3
Pro Gly Arg Ser Pro Phe Thr Gly Lys Lys Leu Phe Asn Gln Glu Phe
                                    10
```

```
Ser Gln Asp Gln
           20
<210> 4
<211> 26
<212> PRT
<213> Artificial sequence
<223> Phage display peptide library sequence
<400> 4
Ala Glu Cys Asp Trp Gly Lys Gly Gly Arg Trp Arg Leu Trp Pro Gly
                                   10
Ala Ser Gly Lys Thr Glu Ala Cys Gly Pro
<210> 5
<211> 22
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 5
Cys Asp Trp Gly Lys Gly Gly Arg Trp Arg Leu Trp Pro Gly Ala Ser
              5
Gly Lys Thr Glu Ala Cys
           20
<210> 6
<211> 22
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 6
Cys Pro Gly Arg Ser Pro Phe Thr Gly Lys Lys Leu Phe Asn Gln Glu
                                   10
               5
Phe Ser Gln Asp Gln Cys
           20
```

<210> 7

```
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 7
Leu Gly Ser Gly Arg Ile Gly Asp Gly Trp Ser Asp Gly Gly Leu Ala
                                  10
Arg Arg Leu Lys
<210> 8
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 8
Asp Gly Gly Gly Ala Gly Arg Trp Thr Thr Lys Asp Arg Ser Ala
                                  10
Ala Lys Thr Glu
           20
<210> 9
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 9
Val Asp Asp Gly Ala Gln Gly Lys Arg Trp Gly Gly Met Gly Leu Gly
                                   10
Lys Gly Arg Arg
           20
<210> 10
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
```

```
<400> 10
Ser Gly Ser Gly Val Gly Leu Arg Met Ala Ser Gln Arg His Glu Gly
                                  10
Arg Lys Val Tyr
<210> 11
<211> 20
<212> PRT
<213> Artificial sequence
<223> Phage display peptide library sequence
<400> 11
Gln Leu Pro Gln Asn Gly Gly Pro Ala Trp Phe Thr Arg Lys Ala Gly
                                  10
Gln Gly Gly Arg
<210> 12
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 12
Leu Gly Tyr Ala Gly Gly Gly Gln Gly Met Val Glu Gly Ser Phe Trp
               5
Pro Thr Ser Trp
<210> 13
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 13
Gly Leu Arg Gly Met Glu Gly Arg Gly Tyr Pro Lys Asp Arg Arg Asp
               5
                                   10
```

Arg Asn Leu Glu

```
<210> 14
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 14
Leu Ile Gly Gly Asn Lys Ala Gly Arg Gly Ala Trp Gly Val Val Ala
Ser Ser Gly Arg
<210> 15
<211> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 15
Glu Leu Glu Ser Arg Gly Gly Leu Gly Tyr Ala Trp Arg Gly Ser Ala
                                   10
Ser Thr Met Asp
           20
<210> 16
<211> 20
<212> PRT
<213> Artificial sequence
<223> Phage display peptide library sequence
<400> 16
Lys Gly Glu Thr Gly Asn Gly Gly Arg Ala Lys Ala Gly Thr Val Asp
                                   10
Leu Ile Arg Arg
            20
<210> 17
<211> 50
<212> PRT
<213> Artificial sequence
```

```
<220>
<223> Consensus peptide sequence
<220>
<221> MISC FEATURE
<222>
     (1)..(20)
<223> Xaa may or may not be present, if present Xaa is a C or any amino
<220>
<221> MISC_FEATURE
<222>
     (21)...(21)
<223> Xaa is W or F
<220>
<221> MISC_FEATURE
<222> (22)..(25)
<223> Xaa is a positively charged or non-negatively charged amino acid
<220>
<221> MISC_FEATURE
<222> (26)..(26)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (27)..(27)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (28)..(28)
<223> Xaa is any amino acid
<220>
<221> MISC FEATURE
<222> (29)..(29)
<223> Xaa is any amino acid
<220>
<221> MISC FEATURE
<222> (30)..(30)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (31)..(50)
<223> Xaa may or may not be present, if present Xaa is a C or any amino
      acid
<400> 17
5
                        10
```

```
Xaa Xaa
   50
<210> 18
<211>
      30
<212> PRT
<213> Artificial sequence
<220>
<223> Consensus peptide sequence
<220>
<221> MISC_FEATURE
<222> (1)..(20)
<223> Xaa may or may not be present, if present Xaa is a C or any amino
<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (22)..(25)
<223> Xaa is a positively charged or non-negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (26)..(26)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (27)..(27)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (28)..(29)
<223> Xaa is any amino acid
<220>
<221> MISC FEATURE
<222> (30)..(30)
<223> Xaa is W or F
<400> 18
5
                                10
                                                  15
```

35

20 25 30

```
<210> 19
<211> 30
<212> PRT
<213> Artificial sequence
<220>
<223> Consensus peptide sequence
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is W or F
<220>
<221> MISC_FEATURE
<222> (2) .. (5)
<223> Xaa is a positively charged or non-negatively charged amino acid
<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (7)..(7)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (8)..(9)
<223> Xaa is any amino acid
<220>
<221> MISC FEATURE
\langle 222 \rangle (10)...(10)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (11)..(30)
<223> Xaa may or may not be present, but when present is C or any amino
      acid
<400> 19
5
                      10
20
                             25
                                              30
<210> 20
<211> 12
<212> PRT
```

```
<213> Artificial sequence
<220>
<223> Consensus peptide sequence
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa may or may not be present and if present is C or any amino
<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> Xaa is W or F
<220>
<221> MISC_FEATURE
<222> (3) .. (6)
<223> Xaa is a positively charged or non-negatively charged amino acid
<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (8)..(8)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (9)..(10)
<223> Xaa is any amino acid
<220>
<221> MISC FEATURE
<222> (11)..(11)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (12)..(12)
<223> Xaa may or may not be present, but if present is C or any amino
      acid
<400> 20
5
<210> 21
<211> 51
<212> PRT
<213> Artificial sequence
<220>
<223> Consensus peptide sequence
```

```
<220>
<221> MISC FEATURE
<222> (1)..(20)
<223> Xaa may or may not be present, if present Xaa is a C or any amino
<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is W or F
<220>
<221> MISC_FEATURE
<222> (22)..(22)
<223> Xaa is a non-negatively charged amino acid
<220>
<221> MISC_FEATURE
<222> (23)..(23)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC_FEATURE
<222> (24)..(25)
<223> Xaa is a non-negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (26)..(26)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (27)..(27)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (28)..(30)
<223> Xaa is any amino acid
<220>
<221> MISC FEATURE
<222> (31)..(31)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222>
     (32)..(51)
<223> Xaa may or may not be present, if present Xaa is a C or any amino
      acid
<400> 21
5
                                 10
                                                   15
```

20 25 30

```
35
                            40
Xaa Xaa Xaa
    50
<210> 22
<211> 31
<212> PRT
<213> Artificial sequence
<220>
<223> Consensus peptide sequence
<220>
<221> MISC_FEATURE
<222> (1)..(20)
<223> Xaa may or may not be present, but if present Xaa is C or any
       amino acid
<220>
<221> MISC FEATURE
<222> (21)..(21)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (22)..(22)
<223> Xaa is a non-negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (23)..(23)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (24)..(25)
<223> Xaa is a non-negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (26)..(26)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC_FEATURE
<222> (27)..(27)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (28)..(30)
<223> Xaa is any amino acid
```

```
<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> Xaa is W or F
<400> 22
10
25
<210> 23
<211> 31
<212> PRT
<213> Artificial sequence
<220>
<223> Consensus peptide sequence
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (2)..(2)
<223> Xaa is a non-negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (3)..(3)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (4)..(5)
<223> Xaa is a non-negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (6)..(6)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (7)..(7)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (8) .. (10)
<223> Xaa is any amino acid
<220>
```

<221> MISC FEATURE

```
<222> (11)..(11)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222>
     (12)..(31)
<223> Xaa may or may not be present, but if present Xaa is C or any
      amino acid
<400> 23
25
<210> 24
<211> 11
<212> PRT
<213> Artificial sequence
<220>
<223> Consensus peptide sequence
<220>
<221> MISC FEATURE
<222> (1)..(1)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (2)..(2)
<223> Xaa is a non-negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (3)..(3)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (4)..(5)
<223> Xaa is a non-negatively charged amino acid
<220>
<221> MISC FEATURE
<222> (6)..(6)
<223> Xaa is a positively charged amino acid
<220>
<221> MISC FEATURE
<222> (7) .. (7)
<223> Xaa is W or F
<220>
<221> MISC_FEATURE <222> (8)..(10)
```

```
<223> Xaa is any amino acid
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is W or F
<400> 24
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
<210> 25
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Flanking peptide sequence
<400> 25
Ser Arg Lys Asn Gln
<210> 26
<211> 9
<212> PRT
<213> Artificial sequence
<220>
<223> Phage display peptide library sequence
<400> 26
His Cys Ser Gln Asn Glu Asp Gly Ala
<210> 27
<211> 9
<212> PRT
<213> Artificial sequence
<223> Phage display peptide library sequence
<400> 27
Tyr Ser Thr Thr Ser Trp Tyr Tyr Trp
<210> 28
<211> 40
<212> PRT
<213> Artificial sequence
<220>
```

```
<223> Alpha-Beta 1-40 fragment
<400> 28
Asp Ala Glu Phe Lys His Asp Ser Gly Thr Glu Val His His Gln Lys
                                   10
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile
                               25
Gly Leu Met Val Gly Gly Val Val
<210> 29
<211> 20
<212> DNA
<213> Artificial sequence
<220>
<223> primer
<400> 29
                                                                       20
gtttgtcgtc tttccagacg
<210> 30
<211> 105
<212> DNA
<213> Artificial sequence
<220>
<223> Nucleotide cloning sequence
<400> 30
cggggtacct gcagaatgcg attgggggaa ggggggtcgg tggcggttgt ggccgggtgc
gtcggggaag acggaggcgt gcggcccgcc gtattagtct agagc
                                                                      105
<210> 31
<211> 105
<212> DNA
<213> Artificial sequence
<220>
<223> Nucleotide cloning sequence
<400> 31
gctctagact aatacggcgg gccgcacgcc tccgtcttcc ccgacgcacc cggccacaac
                                                                     60
                                                                      105
cgccaccgac ccccttccc ccaatcgcat tctgcaggta ccccg
<210> 32
<211> 5
<212> PRT
```

<213> Artificial sequence

```
<220>
<223> Flanking sequence from phage coat
<400> 32
Cys Gly Pro Pro Tyr
<210> 33
<211> 11
<212> PRT
<213> Artificial sequence
<220>
<223> Consensus peptide sequence
<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa is W or F
<220>
<221> MISC_FEATURE
<222> (2)..(6)
<223> Xaa is any positively charged amino acid
<220>
<221> MISC FEATURE
<222> (7) .. (7)
<223> Xaa is W or F
<220>
<221> MISC FEATURE
<222> (8)..(10)
<223> Xaa is any amino acid
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is W or F
<400> 33
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
```